Hans-Peter Dietz

Curriculum Vitae

▬▬▬ Personals

Date of birth	Feb 26, 1987 at Rothenburg o.d. Tauber, Germany
Nationality	German
Marital status	Single

▬▬▬ Key Skills

Software Architecture
Designing distributed systems is one of my favorite tasks. Be it RESTful microservices with the occasionaly interspersed SPA or IoT systems.

Software Engineering
I am passionate about high quality software development. In process, operations and code.

UX
Well implemented user experience design separates excellent from good software. I am knowledgable in human computer interaction. By education and vocational experience.

JavaScript
ECMAScript is my bread and butter. No matter where - frontend, backend, jobs, tools, you name it. It is my personal default language to get things done. I code quite a bit. Not only at work, see the projects section.

For an overview of technologies I have have worked with, please refer to my personal website: https://hpdietz.com/stack

Vocations

2018–present **Application Architect and UX Responsible**, OSRAM, Munich.
https://www.osram.com.
Application Software Architect and UX Responsible in the Smart Positioning Solutions research and development team. Design and implementation of location based services and IoT applications for OSRAM EINSTONE.
Details:
- Agile and lean development process (SCRUM).
- Architecture, interaction and user-experience design of multiple native mobile applications.
- System and API design of distributed web platforms for IoT device management and Smart Retail.
- Cloud infrastructure: Microsoft Azure.
- Implementation of web front end solutions with REACT/REDUX.
- Implementation of microservices with NODE.JS/KOA.
- Test and behaviour driven (TDD/BDD) development approach using various frameworks, including JEST, MOCHA, CHAI and SINON.

Peculiarities:
- Held tech talk about analytics for IoT solutions.

2015–2018 **Software Engineer**, CHECK24, Munich.
https://www.check24.de.
Full stack JAVASCRIPT developer and DevOp in the animal insurance team.
Details:
- Agile and lean development process (SCRUM/KANBAN).
- Front end development using various frameworks, including (vanilla) ECMAScript 2015, ANGULARJS 1.X, REACT, REDUX, MITHRIL and RIOT.JS.
- Development of backend (micro-) services, jobs and APIs using various technologies, including NODE.JS and C#.
- Test and behavior driven (TDD/BDD) development approach using various frameworks, including JASMINE, KARMA, MOCHA, CHAI, SINON, CUCUMBER.JS and PROTRACTOR.
- Various DevOps tasks, including:
  - Setup and maintenance of DOCKER infrastructure.
  - Setup and maintenance of reverse proxy and load balancing nodes using NGINX.
  - Machine provisioning with ANSIBLE and BASH.
  - Maintenance of CI/CD pipeline (BAMBOO) and Linux VMs.
- Itermittently helped out with native development for both iOS (SWIFT) and ANDROID.

Peculiarities:
- Held tech talk about accelerated mobile pages (AMP).
- Held three part tech talk about LINUX and BASH. https://github.com/haensl/bash-talk
- Held a presentation about componentization in modern web engineering at TU Munich.
- Focussed on mobile web presence.
- Conducted adhoc UX/IX study with accompanying report.
- Authored a tech report about ANSIBLE configuration management *(see Publications)*.

2014–2016 **Co-Founder, CTO**, J&H, Freising..
Co-Founder and CTO.
Details:
- Commissional web development of both individual components as well as complete websites using various technologies.
- Design and implementation of native mobile applications for iOS (OBJECTIVE C) and ANDROID.
- Commissional consulting about usability and user centered design.

2011–2014	**Student assistant**, LFE Media Informatics, Ludwig-Maximilians-University, Munich.
	http://www.medien.ifi.lmu.de.
	Details:
	Held weekly tutorials accompanying the following lectures:
	Digital Multimedia Teaching of the fundamental concepts of digital multimedia.
	Multimedia Programming Programming of multimedia applications and games using Python and JavaFX.
	Online Multimedia Technical concepts and implementation of websites and webservices using PHP, JavaScript, jQuery, Prototype and JBoss/JSP/JSF.
2008–2010	**Working Student**, Efdis AG, Freising.
	http://efdis.de.
	Working student in software development.
2007	**Working Student**, BMW Group, Munich.
	https://www.bmwgroup.com.
	Working student in taxes/national.

Education

2010–2014	**Master of Science (M. Sc.) Media Informatics**, *Ludwig-Maximilians-University*, Munich, *GPA − 1.59*.
	Focus Areas: User Experience, Security, Distributed Computing, Web and Mobile Applications.
2007–2010	**Bachelor of Science (B. Sc.) Media Informatics**, *Ludwig-Maximilians-University*, Munich, *GPA − 1.75*.
	Focus Areas: Human Computer Interaction, Multimedia, Software Development.
	Secondary Subject: Media Business Studies
2006–2007	**Student of Horticultural Science (B. Sc.)**, *Technical University*, Munich.
1997–2006	**A-Level**, *Georg-Wilhelm-Steller-Gymnasium*, Bad Windsheim, *GPA − 2.3*.

Masters Thesis

Title	*Ask The Crowd: Crowdsourcing Knowledge Generation*
Supervisors	Professor Heinrich Hußmann & Alexander De Luca, Ph. D.
Description	Evaluation of the potential of crowdsourcing to generate new and interesting knowledge.

Bachelor Thesis

Title	*Supporting association, reminiscing and social discovery in a music player*
Supervisors	Professor Andreas Butz & Dominikus Baur, Ph. D.
Description	Development and evaluation of a plugin for the music player Songbird that visualises last.fm listening histories.
	https://youtu.be/WL5N05RmQMc

Projects

2019–present	**react-component-console**, HP Dietz, Munich.
	https://github.com/haensl/react-component-console.
	React component emulating a console terminal. Featuring human-like typing via dynamic delays, callbacks and customizable CSS classes. Available on npm.

2019–present	**rollup-plugin-local-resolve**, HP DIETZ, Munich.
	https://github.com/haensl/rollup-plugin-local-resolve.
	Rollup plugin to resolve relative folder imports without explicitly stating the file. Available on NPM.
2019–present	**Subset Sum**, HP DIETZ, Munich.
	https://github.com/haensl/subset-sum.
	Node.js module to compute solutions to the Coin changing problem, i.e. find combinations from a given set of integers that add up to a desired sum. Available on NPM.
2018–present	**log**, HP DIETZ, Munich.
	https://github.com/haensl/log.
	Minimal Node.js log service. Available on NPM.
2018–present	**assign-reducers**, HP DIETZ, Munich.
	https://github.com/haensl/assign-reducers.
	Node module to combine Redux reducer function analogous to `Object.assign()`. Available on NPM.
2018–present	**JS Profiler**, HP DIETZ, Munich.
	https://js-profiler.com.
	Website that visualizes performance profiles, benchmarks and comparisons for various JavaScript built-ins. This site is essentially the JS Profiler Node.js library brought to live.
2018–present	**Beacon Tool CLI**, HP DIETZ, Munich.
	https://github.com/haensl/beacon-tool-cli.
	CLI for Beacon Tool. Available on NPM.
2018–present	**Beacon Tool**, HP DIETZ, Munich.
	https://github.com/haensl/beacon-tool.
	Node.js library featuring a collection of Bluetooth beacon signal utility functions. Available on NPM.
2018–present	**preact-component-console**, HP DIETZ, Munich.
	https://github.com/haensl/preact-component-console.
	A console/terminal emulator Preact component. Simulates typing via dynamic delays. Available on NPM.
2018–present	**json-parser**, HP DIETZ, Munich.
	https://github.com/haensl/json-parser.
	Minimal, promise-based JSON file parser for Node.js. Available on NPM.
2018–present	**minify-inline-json**, HP DIETZ, Munich.
	https://github.com/haensl/minify-inline-json.
	Node.js module to minify inlined/embedded JSON data within `<script>` tags. Available on NPM.
2018–present	**embed-json**, HP DIETZ, Munich.
	https://github.com/haensl/embed-json.
	Node.js module to inline/embed JSON data into files. Available on NPM.
2018–present	**OpenSSL Certificate Generator**, HP DIETZ, Munich.
	https://github.com/haensl/openssl-certgen.
	Automated, self-signed certificate generation via OpenSSL.
2018–present	**mov2gif**, HP DIETZ, Munich.
	https://github.com/haensl/mov2gif.
	QUICKTIME video to GIF animation converter.
2018–present	**node-amp-mustache-skeleton**, HP DIETZ, Munich.
	https://github.com/haensl/node-amp-mustache-skeleton.
	AMP project skeleton served via NODE.JS featuring MUSTACHE templating and GULP based CI.

2017–present	**goto**, HP DIETZ, Munich. https://github.com/haensl/goto. Bash completion for fast project navigation.
2017–present	**HP Dietz**, HP DIETZ, Munich. https://hpdietz.com. Design and implementation of my personal homepage.
2017–present	**HP Dietz**, HP DIETZ, Munich. https://haensl.github.io. Design and implementation of my personal Github.io page.
2017–present	**gulp-embed-json**, HP DIETZ, Munich. https://github.com/haensl/gulp-embed-json. GULP plugin to inline/embed JSON data into HTML files. Available on NPM.
2017–present	**gulp-embed-svg**, HP DIETZ, Munich. https://github.com/haensl/gulp-embed-svg. GULP plugin to inline/embed SVG images into HTML files. Available on NPM.
2017–present	**gulp-minify-inline-json**, HP DIETZ, Munich. https://github.com/haensl/gulp-minify-inline-json. GULP plugin to minify inline JSON data. Available on NPM.
2017–present	**vm-php**, HP DIETZ, Munich. https://github.com/haensl/vm-php. PHP7 project skeleton based on VAGRANT and ANSIBLE featuring development and QA sites as well as MAILHOG.
2017–present	**The Rovers | Pub Music**, HP DIETZ, Munich. http://rovers.band. Design, implementation and maintenance of the band's website.
2017–present	**ng-async-img**, HP DIETZ, Munich. https://github.com/haensl/ng-async-img. An ANGULAR.JS directive for asynchronous, $animate-aware image tags. Available on NPM and BOWER.IO.
2017–present	**JS-Profiler**, HP DIETZ, Munich. https://github.com/haensl/js-profiler. JavaScript profiling tool, library and benchmark collection. Available on NPM.
2016–present	**mutt2calcurse**, HP DIETZ, Munich. https://github.com/haensl/mutt2calcurse. Bash utility to export iCal events from mutt to calcurse.
2016–present	**ngAnimatedScroll**, HP DIETZ, Freising. https://github.com/haensl/ngAnimatedScroll. A promise based ANGULAR.JS service to facilitate animated scrolling. Available on NPM and BOWER.IO.
2016–present	**bytes**, HP DIETZ, Freising. https://github.com/haensl/bytes. Shell utility to retrieve the disk space consumed by files within a directory.
2015–present	**htmlelement.polyfills**, HP DIETZ, Freising. https://github.com/haensl/htmlelement.polyfills. Lightweight, vanilla JavaScript polyfills for most common operations on the HTMLElement interface. Available on NPM
2014–2016	**Qake**, J&H, Freising.. Design and implementation of the retro arcade game QAKE for iOS.

2014	**Spiegel TV Wissen: Wissenwelten**, J&H, Freising..
	Frontend for the Wissenswelten widget p.p. Heinrich+Gretchen GmbH.
2014	**Spiegel Geschichte: Geschichte entdecken**, J&H, Freising..
	Frontend for the timeline widget p.p. Heinrich+Gretchen GmbH.
2013–present	**Ask The Crowd**, HP Dietz, Freising..
	Design, development and evaluation of the crowdsourcing online portal Ask The Crowd, which enables users to ask and answer questions, while providing realtime visualizations of the results.
2012	**PerCom App**, Ludwig-Maximilians-University, Munich.
	https://play.google.com/store/apps/details?id=org.percom&hl=en.
	Member of the development team for the official Android app of the PerCom conference 2012, Lugano, Switzerland.
2011	**MMM - The MultiModal Metronome**, Ludwig-Maximilians-University, Munich.
	https://youtu.be/9nYjFxxmyPg.
	Design and implementation of an Arduino-based rapid prototype for a metronome that reacts to external audio stimuli and proides visual cues of the beats.

Publications

2016	**Ansible.tar.gz**, *HP Dietz*, Technical Report: Ansible Configuration Management https://hpdietz.com/assets/docs/ansible.tar.gz.pdf.
2015	**Controlled Chaos: Randomization in Level Design**, *J&H*, https://hpdietz.com/assets/docs/controlling-chaos.pdf.
2013	**Ask The Crowd: Crowdsourcing Knowledge Generation**, *Ludwig-Maximilians-University, Munich*, https://hpdietz.com/assets/docs/ask-the-crowd.pdf.
2011	**Implicit Authentication on Mobile Devices**, *Advanced Seminar: Ubiquitous Computing (P. 83–90)*, Media Informatics Munich, https://www.medien.ifi.lmu.de/pubdb/publications/pub/hausen2011ubicompHS/hausen2011ubicompHS.pdf.

Talks

2018	**Analytics**, *OSRAM, Munich*, Application analytics for IoT solutions from conception to solution..
2017	**Accelerated Mobile Pages**, *CHECK24, Munich*, An introduction to Google AMP..
2017	**Linux, the Bash & everything**, *CHECK24, Munich*, Fundamentals of UNIX-based operating systems and shell programming. https://github.com/haensl/bash-talk.
2016	**Componentization in modern web architectures**, *Technical University, Munich*, Concepts and architectural patterns of state of the art web applications..

Certifications

2009	Foundation Certificate in ITSM according to ISO/IEC 20000

Languages

German	**Mothertongue**	
English	**Fluent**	
French	**Basic**	*Basic words and phrases only*

Interests

- Bass Guitar
- (Astro-)Physics
- Motorcycling
- Electronics
- Online Gaming
- Aquascaping